

**Madhya Pradesh Medical Science University,  
Jabalpur  
MBBS First Professional Examination Aug-Sep  
2016  
Subject- Biochemistry  
Paper-II**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

**Long Answer questions – 10 MARKS**

Q1. a. Discuss transcription, genetic code and post transcriptional modifications

b. Explain importance of proteins in human nutrition. Why is SDA of proteins higher than that of major nutrients

**Short Answer Questions – 30 MARKS**

Q2. a. Role of free radicals in aging

b. Tumour markers

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C. IgG

- d. Enzyme classification
- e. Point mutation
- f. Heme catabolism
- g. Fluid mosaic model of plasma membrane
- h. Markers of acute renal failure
- i. Telomere and telomerase
- j. Calorie requirements in a person having diabetes mellitus

### **Very Short Answer Questions – 10 MARKS**

Q3. a. Van den Bergh reaction

b. Value of TmG and renal threshold for glucose

C. Name the markers of bone formation

d. Oxidative stress

e. Define vector

f. Principle of photometry

g. Bicarbonate buffer

h. Wobble hypothesis

i. Orotic aciduria

j. Name the important compounds formed from glycine

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